## Gamma-ray observations of the eta Carinae region

 ${\sf Marco\ Tavani^1}$  , Elena  ${\sf Pian^2}$  , Roberto F. Viotti $^1$  , Mike F. Corcoran  $^3$  , AGILE  ${\sf TEAM^4}$ 

- 1 IASF Roma
- 2 INAF-Osservatorio Astronomico di Trieste, Trieste, Italy
- 3 NASA Goddard Space Flight Center
- 4 Istituto Nazionale di Astrofisica

We give an overview of the high energy X-ray and gamma-ray observations of the eta Carinae region by different satellites, and present the results of the extensive monitoring by the AGILE gamma-ray satellite during July 2007 to present. A gamma-ray source - 1AGL J1043-5931 - is present at the eta Carinae position and a remarkable flaring episode was detected. We suggest that this gamma-ray source is associated with the eta Car system, which should represent the first detection above 100 MeV of a colliding wind binary, and discuss the fundamental theoretical implications.